Table A.7. *Graphics.*

`plot`	x-y plot
`fplot`	Function plotter
`ezplot`	Easy-to-use function plotter
`semilogy`	Plot with logarithmically scaled y-axis
`bar`	Bar graph
`hist`	Histogram
`axis`	Axis control
`xlim`	Set x-axis limits
`ylim`	Set y-axis limits
`grid`	Grid lines
`xlabel`	Label x-axis
`ylabel`	Label y-axis
`title`	Title graph
`legend`	Display legend
`text`	Text annotation
`subplot`	Create axes in grid pattern
`hold`	Hold current graph
`contour`	Contour plot
`mesh`	Wireframe surface
`surf`	Solid surface
`spy`	Visualize sparsity pattern
`print`	Print figure to disk or printer
`clf`	Clear current figure
`close`	Close figure

Table A.8. *Linear algebra.*

`norm`	Norm of vector or matrix
`cond`	Condition number of matrix (with respect to inversion)
`\`	Solve linear system of equations
`eig`	Eigenvalues and eigenvectors
`lu`	LU factorization
`qr`	QR factorization
`svd`	Singular value decomposition

Table A.9. *Functions connected with M-files.*

`edit`	Invoke MATLAB editor
`lookfor`	Search H1 line (first comment line) of all M-files for keyword
`nargin`	Number of function input arguments
`nargout`	Number of function output arguments
`type`	List file in Command Window
`which`	Display full pathname of M-file

Table A.10. *Miscellaneous.*

`clc`	Clear Command Window
`demo`	Demonstrations
`diary`	Save Command Window text to file
`dir`	Display directory listing
`doc`	Display HTML documentation in Help browser
`help`	Display help in Command Window
`tic, toc`	Start/stop stopwatch timer
`what`	List MATLAB files in current directory grouped by type

Table A.11. *Data types and conversions.*

`double`	Convert to double precision
`char`	Create or convert to character array (string)
`cell`	Create cell array
`num2str`	Convert number to string
`sparse`	Create sparse matrix
`struct`	Create or convert to structure array

Table A.12. *Managing the workspace.*

`clear`	Clear items from workspace
`who, whos`	List variables in workspace
`load`	Load workspace variables from disk
`save`	Save workspace variables to disk
`exit, quit`	Terminate MATLAB session

Table A.13. *Input and output.*

`disp`	Display text or array
`format`	Set output format
`fprintf`	Write formatted data to screen or file
`sprintf`	Write formatted data to string
`input`	Prompt for user input

Table A.14. *Numerical methods.*

`bvp4c`	Solve two-point boundary value problem
`fft`	Discrete Fourier transform
`fminbnd`	Minimize function of one variable on fixed interval
`fzero`	Find zero of function of one variable
`interp1`	One-dimensional interpolation (several methods)
`ode45`	Explicit Runge–Kutta pair for nonstiff differential equations
`polyfit`	Least squares polynomial fit
`quadl`	Numerical integration
`roots`	Roots of polynomial
`spline`	Cubic spline interpolation